AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An image processing method of eliminating a line-shaped

image object, which overlaps with a moving image object in one image comprising effective

or ineffective pixels, from the moving image object, the method comprising the respective

steps of:

a line segment extraction step for extracting a line segment from a from the line-

shaped image object by a line segment extraction means;

an elimination step for eliminating the line-shaped image object from the moving

image object by a line-shaped image elimination means;

a pixel extraction step for scanning a vicinity region of the line segment on the

moving image object and sequentially extracting pixels to be scanned by an image scan

means;

an effective pixel determination step for determining whether or not the extracted

pixels to be scanned are the effective pixels by an effective pixel determination means; and

a pixel interpolation step for dropping a perpendicular from the pixels to be scanned

that are determined to be the effective pixels at the effective pixel determination step to a

nearest line segment and setting all the pixels on the perpendicular as the effective pixels by

a pixel interpolation means.

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2. (Currently Amended) An image processing method according to claim 1, wherein

the image is one frame in the moving image object a moving image comprising a plurality of

frames.

3. (Currently Amended) An image processing method according to claim 1, wherein

the image is an image obtained by subjecting a single frame or plural frames in the moving

image object a moving image comprising the plurality of frames to predetermined arithmetic

processing.

4. (Currently Amended) An image processing method according to claim 3, wherein

the arithmetic processing is any one of processing for determining a difference between two

arbitrary frames in the moving image-object or processing for determining a change region in

one arbitrary frame in the moving image object.

5. (Currently Amended) An image processing method according to claim 4, wherein

the processing for determining the change region in the one arbitrary frame in the moving

image-object is processing for extracting predetermined frames before and after the one

frame and obtaining-different_difference images between each predetermined frame and the

one frame, respectively as well as executing an ANDing operation of both of the -different

difference images.

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6. (Previously Presented) An image processing method according to claim 1, wherein

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a line segment is extracted using a Hough transform at the line segment extraction step.

7. (Previously Presented) An image processing apparatus for eliminating a line-

shaped image object, which overlaps with a moving image object in a single image

comprising effective or ineffective pixels, from the moving image object, the apparatus

comprising:

a line segment extraction means for extracting a line segment from the line-shaped

image object;

a line-shaped image elimination means for eliminating the line-shaped image object

from the moving image object;

an image scan means for scanning a vicinity region of the line segment on the

moving image object and sequentially extracting pixels to be scanned;

an effective pixel determination means for determining whether or not the extracted

pixels to be scanned are the effective pixels; and

a pixel interpolation means for dropping a perpendicular from the pixels to be

scanned that are determined to be the effective pixels at the effective pixel determination step

to a nearest line segment and setting all the pixels on the perpendicular as the effective

pixels.

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8. (Currently Amended) An image processing apparatus according to claim 7

comprises a frame extraction means for extracting one frame from the moving image object a

moving image comprising a plurality of frame and uses one frame extracted by the frame

extraction means as an image.

9. (Currently Amended) An image processing apparatus according to claim 7

comprises a frame extraction means for extracting a single frame or a plurality of frames

from the moving image object a moving image comprising a plurality of frames and a frame

arithmetic processing means for subjecting an extracted frame to predetermined arithmetic

processing and uses a result of the arithmetic processing as the image.

10. (Currently Amended) A image processing apparatus according to claim 9, wherein

the frame arithmetic processing means executes any processing of processing for

determining a difference between two arbitrary frames in the moving image-object and

processing for determining a change region in one arbitrary frame in the moving image

object.

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11. (Currently Amended) An image processing apparatus according to claim 10,

wherein, the processing executed by the frame arithmetic processing means to determine the

change region in the one arbitrary frame is processing for extracting predetermined frames

before and after the one frame and obtaining-different difference images between each

predetermined frame and the one frame, respectively as well as executing an ANDing

operation of both of the different difference images.

12. (Previously Presented) An image processing apparatus according to claim 7,

wherein the line segment extraction means extracts a line segment using a Hough transform.

13-14. (Cancelled)